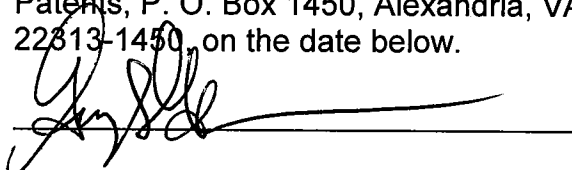


IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Ernest C. Chen : I hereby certify that this correspondence is
: being electronically filed with the United
: States Patent and Trademark Office
Serial No.: 10/532,619 : addressed to:
371(c) Date: April 25, 2005 :
: Mail Stop Amendment, Commissioner for
For: MAXIMIZING POWER AND : Patents, P. O. Box 1450, Alexandria, VA
SPECTRAL EFFICIENCIES FOR : 22813-1450, on the date below.
LAYERED AND CONVENTIONAL :
MODULATIONS :
: 
: _____
: Georgann S. Grunebach
: Typed or printed name of person signing certificate
Group Art Unit: 2611 :
Examiner: BAYARD, Emmanuel : Date: August 22, 2007

SUPPLEMENTAL DISCLOSURE STATEMENT
UNDER 37 C.F.R. § 1.97 (c)

Mail Stop Amendment
Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

The references cited on the enclosed form PTO/SB/08A may be relevant or material to the examination of the above-identified patent application and are, therefore, submitted in compliance with the duty of disclosure defined in 37 C.F.R. §1.56.

This statement should be considered because it is submitted after the mailing date of a first Office action on-the-merits, but before the mailing date of any of a final action under § 1.113, a notice of allowance under § 1.311, or an action that otherwise closes prosecution in the application.

No fee is due as this statement is submitted as certified below under 37 C.F.R. §1.97(e)(1) or (2) by the undersigned.

CITATION NUMBER 4
Certification Under 37 C.F.R. §1.97(e)(1)

Each item of information contained in the information disclosure statement for citation number 4 was first cited in a communication from a foreign patent office in a counterpart foreign application of a related U.S. patent application not more than three months prior to the filing of the information disclosure statement (certification under 37 C.F.R. § 1.97 (e)(1)).

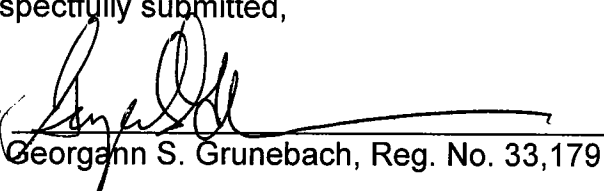
CITATION NUMBERS 1 THROUGH 3 AND 5
Certification Under 37 C.F.R. §1.97(e)(2)

No item of information contained in the information disclosure statement for citation numbers 1 through 3 and 5 was cited in a communication from a foreign patent office in a counterpart foreign application of a related U.S. patent application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in §1.56(c) more than three months prior to the filing of the information disclosure statement. (certification under 37 C.F.R. § 1.97 (e)(2)).

This Information Disclosure Statement is not to be construed as a representation that a search has recently been made, that additional information material to the examination of this application does not exist, or that this citation constitutes prior art.

Respectfully submitted,

By:


Georgann S. Grunebach, Reg. No. 33,179

The DIRECTV Group, Inc.
CA/LA1/A109
P. O. Box 956
El Segundo, CA 90245

Telephone No. (310) 964-4615

| | | |
|--|--------------------------|----------------|
| Substitute for form PTO/SB/08A INFORMATION DISCLOSURE STATEMENT BY APPLICANT | Complete if Known | |
| | Application Number | 10/532,619 |
| | Filing Date | April 25, 2005 |
| | First Named Inventor | Ernest Chen |
| | Art Unit | 2611 |
| Examiner Name | BAYARD, Emmanuel | |
| Date: | August 22, 2007 | |
| Sheet 1 of 1 | Attorney Docket Number | PD-201014 |

| U.S. PATENT DOCUMENTS | | | | | |
|-----------------------|----------|-------------------------------------|--------------------------------|--|--|
| Examiner Initials* | Cite No. | Document Number Number-Kind Code | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
| | 1 | US-6,678,336 | 01-2004 | Katoh et al. | |
| | 2 | US-6,990,627 | 01-2006 | Uesugi et al. | |
| | 3 | US-7,230,992 | 06-2007 | Walker et al. | |
| | | | | | |
| | | | | | |

| FOREIGN PATENT DOCUMENTS | | | | | | |
|--------------------------|----------|---|--------------------------------|--|---|---|
| Examiner Initials* | Cite No. | Foreign Patent Document Country Code-Number-Kind Code | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear | T |
| | 4 | JP 2002118611 (English abstract) | 04-2002 | Sharp KK | | |

| NON PATENT LITERATURE DOCUMENTS | | | | | |
|---------------------------------|----------|---|--|--|---|
| Examiner Initials* | Cite No. | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | | | T |
| | 5 | PALICOT, J., VEILLARD, J.; "Possible Coding and Modulation Approaches to Improve Service Availability for Digital HDTV Satellite Broadcasting at 22 GHz"; IEEE Transactions on Consumer Electronics; Vol. 39, Issue 3; August 1993; pages 660-667 | | | |

| ALLOWED CO-PENDING RELATED APPLICATIONS | | | | |
|---|--------------------|-------------|-------------|--------------------------|
| Examiner Initials* | Application Number | Filing Date | Inventor(s) | Notice of Allowance Date |
| | 10/693,135 | 10-24-2003 | Chen | June 20, 2007 |
| | 10/532,632 | 04-25-2003 | Chen et al. | July 29, 2007 |

| | | | |
|--------------------|--|-----------------|--|
| Examiner Signature | | Date Considered | |
|--------------------|--|-----------------|--|

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.